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CLAIMS:

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1. A composition comprising a polymeric material having a rheology such that the slope (or S) determined by linear least squares regression, of a plot of the natural log of loss modulus (or G") versus natural log of storage modulus (or G') is greater than [0.635*(melt index)+13.2]/[(melt index)+16.6], and wherein the polymeric material has a CDF RI fraction less than 0.23 of a GPC chromatogram which has a molecular weight above 85,000 g/mol, and a CDF LS fraction of more than 0.07 at a conventional GPC molecular weight of 1,750,000 g/mol or greater.

- 10 2. The composition of Claim 1 wherein the polymeric material has a melt strength less than about 5 cN.
 - 3. The composition of Claim 1 wherein the polymeric material comprises LDPE.
 - 4. The composition of Claim 1 wherein the polymeric material comprises a blend of at least two polymeric materials.
 - 5. The composition of Claim 1 wherein the polymeric material comprises Linear PE.
 - 6. The composition of Claim 3 wherein the LDPE comprises a high molecular weight highly branched component with an MWD greater than 10 and a Mw(absolute)/Mw(GPC) ratio greater than 3.0.
 - 7. The composition of Claim 6 wherein the LDPE is made in an autoclave reactor with chilled ethylene feed below 35°C operating in single phase mode.
 - 8. The composition of Claim 1 wherein the polymeric material has a melt index greater than 10 g/10min.
- 25 9. The composition of Claim 8 wherein the polymeric material has a melt index greater than about 13 g/10min.
 - 10. The composition of Claim 8 wherein the polymeric material has a melt index less than about 100 g/10min.

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11. The composition of Claim 1 wherein the polymeric material has a Mark-Houwink plot where the slope is less than 0.25 in the absolute molecular weight range between 300,000 and 3,000,000 g/mol.

- 12. The composition of Claim 1 wherein the value for S is at least 1% greater than [0.635*(melt index)+13.2]/[(melt index)+16.6].
 - 13. The composition of Claim 12 wherein the value for S is at least 2% greater than [0.635*(melt index)+13.2]/[(melt index)+16.6].
 - 14. The composition of Claim 1 wherein the polymeric material has a CDF RI fraction less than 0.21 of a GPC chromatogram which has a molecular weight above 85,000 g/mol.

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- 15. The composition of Claim 1 wherein the polymeric material has a CDF RI fraction less than 0.20 of a GPC chromatogram which has a molecular weight above 85,000 g/mol.
- 16. The composition of Claim 1 wherein the polymer material has a CDF LS fraction greater than 0.09 of a GPC chromatogram which has a molecular weight above 1,750,000 g/mol.
 - 17. The use of a composition according to Claim 1 to make a cast film, profile extrusion, coated substrate, extrusion lamination or extrusion coated substrate.
- 18. In a process for extruding a polymeric material onto a substrate, the improvement comprising: using a polymeric material having a rheology such that the slope (or S) determined by linear least squares regression, of a natural log-natural log plot of loss modulus (or G") versus storage modulus (or G') is greater than [0.635*(melt index)+13.2]/[(melt index)+16.6].
- 19. The process of Claim 18 wherein the neck-in observed is less than 3 inches when running at a line speed of 440 ft/min.
 - 20. The process of Claim 18 wherein the neck-in observed is less than 2.5 inches when running at a line speed of 440 ft/min.
 - 21. The process of Claim 18 wherein the neck-in observed is less than 2 inches when running at a line speed of 440 ft/min.

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22. The process of Claim 18 wherein the draw down is at least 1500 ft/min.

The process of Claim 18 wherein the polymeric material has a melt 23. strength of less than 5 cN.

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- A polymeric film layer having a rheology such that the slope (or S) 24. determined by linear least squares regression, of a natural log-natural log plot of loss modulus (or G") versus storage modulus (or G') is greater than [0.665*(melt index)+14.2//[(melt index)+16.6], and wherein the polymeric material has a CDF RI fraction less than 0.23 of a GPC chromatogram which has a molecular weight above 85,000 g/mol, and a CDF LS fraction of more than 0.07 at a conventional GPC molecular weight of 10 1,750,000 g/mol or greater.
 - The film layer of claim 24 wherein the layer has a CDF LS fraction of 25. more than 0.09 at a conventional GPC molecular weight of 1,750,000 g/mol or greater.
- The film layer of Claim 24 in which the film layer was produced 26. using an extrusion coating, extrusion lamination, or cast film process. 15
 - 27. A composition of matter comprising:
 - from about 10 to about 25 percent by weight of the composition of a high pressure low density type polyethylene resin having a melt index (b) less than about 2, a molecular weight distribution greater than about 10, a Mw(absolute)/Mw(GPC) ratio greater than about 3.0, and a melt strength greater than about 24.1 -18.0*log10(MI); and
 - b. from about 90 to about 75 percent by weight of the composition, of a Linear PE having a density in the range of 0.97-0.857 g/cc and a melt index (I2) in the range of 20-100;
 - wherein the MI of the composition of matter is greater than about 10 g/10 minutes.
 - The composition of Claim 27 in which component a) has a melt index 28. (I₂) less than about 1 g/10 minutes.
 - 29. The composition of Claim 27 wherein the composition has a melt strength less than about 5 cN.

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30. The composition of Claim 27 wherein the Mw(absolute)/Mw(GPC) ratio of component (a) is greater than 3.2.

31. The composition of Claim 27 wherein the Mw(absolute)/Mw(GPC) ratio of component (a) is greater than 3.5.